

Brasil 79
Bahia

TU2/5394
DART
P357359

\$.33 H

0

memo book

30 sheets
6 in. x 4 in.
no. 490



Stuart Hall co., inc. KANSAS CITY, MISSOURI 64108

S.W. of Belmonte at 1844^{ft}
rest on white sand slope
30 m. (*Alrimnia*)
- *grantis*

Mur. Belmata - 31 Km S.W. of Belmata a $18\frac{1}{4}$
east of Tafesbi, 1200 Forest on white sand slope
abov creek, ~~at~~ Elavst. 30 m. (Alminia)
at the Tafesbi - 9568 - granite

| | | |
|----------------|--------|----------|
| Leptoc. | 9617,6 | 61.5 |
| | 9629,5 | 22.5 |
| Mur Belmata | 9679,1 | 652.85 |
| Mer. Atart. | 9705. | 710 |
| Alminia Atart. | 9710,4 | 81.8 |
| BR 101 | 9792,2 | |
| Belmata | BR 101 | = 113 Km |

2489
Anorillo 419-
427.8

419
(08, 8 km) from
Br 101.

L. M. 796

20th to Orléans

Alonia 815

Alonia 833,2

seen his March
by day here.

Bark up to 3.5 cm
+ up to 20 cm high.

Kentucky -
up to 15 mm.
tail up to 2.3³

870,9

1' 06 8 - 870,9

870,9

841,3 - 870,9

Lepecke & Mo & Oliva

Per A. Asociato -

9208 fm.

9210.3 ~~lues~~

213.

9231.7. rotido &

9235.2 ^{Fayolle} A. ~~angustata~~

9243.6 ^{A. angustata}

waite

9245.9. waite the

263.3

17.4 + leaders

9290.8 ^{minutely} ~~leads & made~~
~~argue~~ ~~choice~~
~~several~~ \rightarrow the

waite

2476 *Linne a Sohia* - *Abrus* *temis* new host? ²⁴⁷⁶

2477 *Abrus radiata* " " K. 18-22

2478 *A. temis* ²⁴⁷⁸ *seeds* " "

2479 *A. gelaphis* "

2476 ²⁴⁷⁶ *Scutellaria* *a* *fls* "

2477 ²⁴⁷⁷ *Merostachys* *en* *fls* "

2478 ²⁴⁷⁸ *Abrus* new host "

2479 ²⁴⁷⁹ *A. radiata* same local? "

2480 ²⁴⁸⁰ *A. temis* *seedlings* "

2481 ²⁴⁸¹ *A. temis* *flower* " "

2482 ²⁴⁸² *A. gracilis* " "

2483 ²⁴⁸³ *Adonis* *temis* - "

2484. *A. radiata*

2485. *A. asymmetrica*

2486. *Abutilon* *Parianella* ²⁴⁸⁷ (Reyes & CENZAC)

2487. *Merostachys* *en* *fls* - *temis* *maia* -

2488. *Anomochloa* *en* *fls* -

2489. *Merostachys* *en* *fls* -

2490. *Merostachys* *en* *fls* -

2491

Brasil 1979

Bahia 79

2476

Feb. 22/73

Blombolof sp.

(same as new one for Mua 7/1876)

Br., Mun. Ilheus, estuado Olí-
veira - Vila Brasil, 30 Km
to SW of Olivença. (Bocardo
is beyond Itirangas & Santa Fé
in Maracá, per concil. el.)

Growing near the edge of
~~the~~ forest in medium

clumps - Culms steep, up
to 3.5 m in diam and

about 20 m high, ta
leaning on trees. Node
per the base to 2.5 m

with strong books
some curved & and
long, co. 6-7 m -

mid culm nodes with

dry they recurred with
of spines - body mostly
when moist without prickles
and with long blade about
a long as beak -

All in flowers, very pretty
fat pseudospikes
common in the up &
there is called "gaucho"
Gaucho is the next to it
Underneath the cardinals
also seen in several
places mostly scattered
dry but in the rainy
not abundant but some
few pictures with red
1 broken - not good
light rain
In some areas also
gaucho and collected

a Meristachys in flower
FAA: I dyed a moth
spikelet a leaf. (2-3)
paramo ~~2~~ ² ~~2~~
streams -
Dwarf? (red)

2477

Neotropical
S. M. Iberia - same but
as 2476

Most plants flowering,
none albae & yg. at
first.

Descript. fl. M. with
strong calyces not
dotted or calyx about
12, 3-inexious a up to
15 cm long hanging from
tree - growing in H. forest
(open and) a Shrub
Cardinalis - Not too
far from in Mendo

This is a + situated
part of sandy soil
in subtropical region
very humid, dry only

2 nats. 1. When a leaves
pannicles - culms fine
Fast photogapher? not
possible

Pa-23

2488

Alvim's tennis

Br. M. Flores - Br. wood

Olivera - Ville Brasil,
18.3 Km, SW of Detrefoe
(new locality beyond type loc.)

-FAA 4-^{inf} - 11 - 100% but
2nd fruits few &
1 3:1 mature

1 - Borg. (6) -

no bulky material

potos: vol. vol. ± 2 2.5 x 2.5
vol. ± 3 D x W.

In fistfully cut 10m front
of white board wall.
Very abundant but mostly
dry ad past, still some

patches green and porous
rare ones still holding
new shoot.

Very rare big, mature
plants, found only 3-4 -
but very abundant and
do little ^{new} ~~new~~ ^{new} + stage
of seedlings ~~new~~ ^{new} -
seedlings grow well
but (not many) setting
few, poorly because
plant very disturbed and
at - 70 cm. at least
of sage ones, probably
overlapping or in the pot
with the type mostly

In sand in front seen
2 fruits seedling in the
Pj, one 2" pl and
the other 2 or 3 ^{gut} ^{gut} ^{gut}

abead. This was a billy
or butte and bounded
over to like the high
points, we saw the horses
to stop on the lower
parts of slopes -
RAB.

2479

Stratocanthus radiatus

~~big~~ for some wood 2470
giving in patches cut
part of white and with
in small patch with
a bush says popula-
tion of t. trees in
the size of elij gill.
Strat. will find more
in pl. they said just
but a day with few
and only with
long pointed bracts
elij in one or two
yds. beautiful looks
as with long and han-
dij as a star.

collected for herbarium
study -
to often some photographs

11480

2,500 km from Lat
Alvinia - 1°

~~1st name 969,0 -~~
~~2nd name 18.3.~~

~~Alvinia type locality for
mosses 971,500 slide
a dike:~~ 15.9. 16 km
from Oliva

~~200 m up~~ ~~Alvinia muscophyllo~~ 15.700.0
971.700

Reproduced: 987, 4

11.7

15.7

2480 ~~thin~~^{teuis} ~~grass~~ - seedlings

2481 " " grass -

2482 ~~grass~~ - seedlings -

2483 " " -

Solado + Olinger - Solado

38977.500 } \rightarrow 17.3 Km

138994.800 } 10 Km \rightarrow 10.5 Km

39003.4 $\frac{10 \text{ Km}}{+ 8 \text{ Km}}$ 39005 10th Al. granite

39019 - 10th Al. tennis -

pediment + 3 Km \rightarrow was

to the Solado ravine

go - cl. soil finish -

TA Solado

9020,3 - A. tennis + A. rock
to - very stone + rich

patch full of seedlings
Olinger, few of others
with dry but still
few little green of the
wind -

9022 Al. tennis the
very best found with
line of new growth
in place as a
caper, beautiful tall
trees -

- 48.5 Km from Olinger

9026 - m. Solado fine
Sapucariae & *A. burruji*
A. oreolana -

10th

enters to Solado fine

burruji - others - Olinger

9032.8 Km

9043, 6 - late, with fine
to Panted -

side to Panted a Oliveira

- - - - -

Guido & Panted - Oliveira

9132, 4

Guido & Oliveira - Oliveira

9149, 7 -

233

243

new - bin of tanis
new collection for part
host -

- A. tanis ellips for
type host
A. macayuba for
type host -

sets

A. granti ellips new
host 2483

Atractante und
2484

Bring to carnival
2488 *Strat. radiata*
type locality and for
(300? m. m.)
F.A.A.: 2 very small
with very young r.p. a
other like young saplings
1 with tall slender
r.p. with fibrous roots
and other young r.p. a part
of it.
1 bush-like with tips of
pustulations
1 young young r.p.
1 3:1 " "

total 6 r.p.s - and
not numbered -

Fotos: for 1920 coll. Ehl. 200
coll. #2 + 1/2 + coll. #3 4
Bl. x W. for 1920. coll. 3 + 5

2480

Febr 23

be M. Th. of. Oliouze -
with bushy, 16 ^{15.900} Km SW
of Oliouze. (type locality)
Almanea Terminis
seedlings

Very plant of about
one year old now
a few months more
described seedlings
woolly like Nicoria
lychnophylla. to
~~the~~ to the edge of
forest, some set
down on +, already
with the first bracts
for a middle node
May still in the

fruit attached, the 1st
nest very thick -
They are very abundant
in place being a
carpet - looking
healthy and growing
well

Notes taken: Box Woods
Baptist - 200 all the
leaves made.
none with flowers

Feb. 23 2481
A. macrorhynchus Lewis
(Pursh)
Be. M. Th. - St. Louis River
ca. Vila Island, 16th Km
SW of Silver Bay. 15.900

In many places still
plant green and with
inflorescence. This is probably
not so long as we
saw many in the
pick of flowering. ^{but just}
Plain, in his patch
several small, young
fruits seen.
Herbarium or few photos
necess?

Feb 23

2482

be. Mun. Ilheus, Esquedade
Oliveira Vila Brasil, 15,7 Km
sw of Oliveira

Alminia ~~racemosa~~^{racemosa}
(seedling)

type locality.

Plant usually dry
and sunlit but some
patches on one side
of the road. ^{water} ~~water~~ one

places with very young
developing fruits.
Seedlings are abundant
all over the forest and
plants look very large.
Hard to believe at first
place that they are
seedlings, they look like
an adult.

some plant still with
sets out of fruit attached
and some already with
the fruit mode in the
branches.

Herbarium collected

Photos: b-w. and
color (approx. 200) with
flesh - (flesh with camera
not working!)

200 m higher up on road
before *Alminia* tenuis

These seedlings are about
1 year old or a few months
old.

Setala, Feb. 24

2483

Alpinia gracilis
(Wedd.)

80, Mun. Ilheus - straw
Oliveira - Vila Brasil and
then named Sapucacu
- Burnupi from Olis-
to the intersection point
17, 3 Km SW and then
8 (and the new site 10 Km)
right and named -

All plants dry or almost,
few spots with green
leaves but lots of
yellow. They look health-
ful, in blossom several
times, but not too
showy, plant probably
finishes long time

age, no time as
the type locality.
beautiful bright green
leaves, about same
shape as the mother
plant, hairy with
fine nodes with
bristles, very few
already trying to climb
good verbenaceous.

Notes in S & W a cold

We saw 2 varieties
with A. parviflora, and
in the one 2 Km above
us, going with A. trae-
monia modesta -
both varieties plenty of
new growth plant

6a.

Ca. Mun. de Ilheus, Rd

Oliveiros - Vila Brasil, 17,3 Km

SW of Oliveiros and then

31,2 Km to the right, on side
road Sapucaíra - Cururupe

south Feb. 24

2484

Atractantha oersteanata

Growing at the edge of
secondary, ~~fore~~ partially cut
forest along the road.
climbing and sending
out new shoots and
covering densely the vegeta-
tion

New shoots arching and
clinging on vegetation for a
while, then climbing -

Plant with no flowers -

beautiful spot of vegetation -

bulky - with?

FAA:

herbaceous -

Feb. 25

2485

(Honingsacamal)

Atractantha radiata Waller

Bahia, Min. & state, estate
Ave - Oliveira, 28 Km N of
Ave, passing the Hardim.

Wetland area or alluvial point
on white sand soil, near
a sand dune. This is the
same site I collected and
described in 1976. The origi-
nal population is now pa-
ticularly xeric, dry, still with
dry inflorescences, but not green.
After careful exploring the
area we found a few
seedlings, presumably from
seeds of *A. radiata*, passing

under the plants. They look pretty handsome but very small. ~~too~~ to be 100% true. I took photographs but do not collected.

About 300 m or so beyond this site, going south ~~the~~ ^{tip of the} *Thrinax* passing the Grand June there is another spot of *A. radiata* very fuller and flowerings. I think then in 1876 this plant was not blooming and possibly started a little later than the rest of *A. radiata*.

Almost every inflorescence was ~~however~~ ^{fully} polypodized, producing vegetative axes like rays coming out

of the basal ball inflorescence. Each rays ends in one or two or more? spathes. There are very heavy and they hang down from tips of branches. They look very pretty.

FAA: 2 very wide mouth rals with very long inflorescences and others with very long big inflorescences and in other ral long inflorescences with proliferations of part of this proliferations.

1 ral with tips of proliferated axis.

1 Bouquet = young spath 13:1 " "

(Total 6 rals - not bulky collect.)
Photos: from 19- or 20 May.

8pt. 200 roll # 2 and half
or more of roll # 4
Bl. unit from 18 to 20 of roll # 3
and ~~on~~ roll # 5.

Feb 26

2486

Crissiumma asymmetrica, new sp.
Crissiumma

Bahia, Mun. & Una - ~~Almeida~~,
Road Una - Oliveira 12 Km
N. of Una city, fazenda of Mr
Moris de Matos Ciris.
Alt. 75 m.s.m.

Very abundant, dominant
plant in coastal forest of
white sand soil. The material
was collected very completely
in 1976 and 1978. Climbs ^{10m} ~~10m~~
with very hard, white culms, ^{10m}
curved and crowding or
ascendant and leaning
on vegetation and then
climbing to the tops of
trees and hanging for

top about 15-20 cm high
Part of the dried original
plant has been cut down,
all along the entrance
and on both sides of
the road till way ahead
inside park.

In one place near the
tree intersection with the
stream one plant was
in flower.

The inflorescences (pseudoropho-
lets? or spadix) extremely long
some 20 cm long or more
The spadix dry and look
like infested by weevils.
lates we found a few other
plants flowering besides from
but all ~~the~~ dry.

They look like the type
of pseudorophlets of
Bamboo but shorter

The best looking of the pseudo-
spadix were fixed in FAA
They the long pseudorophlets
break very in pieces.

Bd. Mun. de Una. Road
Una - Oliveira, CEPLAC
Reserva "Temos Maias".
Parisotella -

Growing in coastal forest
of white sand soil.
Flowers in forest mixed
with bamboo, *Meristachys*
in bloom and also
Trisiumia (no flowers here).

Feb. 27, 1979. Coll. # 2487

Feb. 27.

2488

Merostachys (en fls.)

Br - Mun. de Una. Road
Una - Olivença, C.E. PLAC's
reserva forestal "Lemos Maria").
(ca. 7 km from Una?)

This "specie" is new is part
of the ones I collected in 1972,
I think is about 5 km or so
from Una, Here I collected
in 1972 this Merostachys,
Asymetria, for the first
time and one or 2 Merostachys
cusp - one of which is now
described as *Merostachys carduina*
Medium size Merostachys
with rather thin, asperous
culms and short leaves
collected a lot of

branches with flowers
and also sterile parts:
big buds and nodes
with branches -

Feb. 28

2489

Anomochloa

Same loc. as 1976 -

⁺ 8.8 km from BR 101 - on
Road São José & Macuco -

Alma - São José de Macuco

Few plants found flowering.
These were as before very
high up the hill side on
dark, humic forest.

Were photographed and
later fixed in FAA, few
specimens collected for
herbarium.

March 3, 1979

2490

Menotachy sp. (in bloom)

Mun. de Belmonte, ²⁶ Km
jw of Belmonte and 87 Km
E of Itapebi

low forest on white sand
soil, saplings, crevices.

height 30 m.

low ^{new} forest on white sand
soil.

Most of the population
already dying, dry and
only the tips of branches
still green with inflores-
ces, no new short ven.

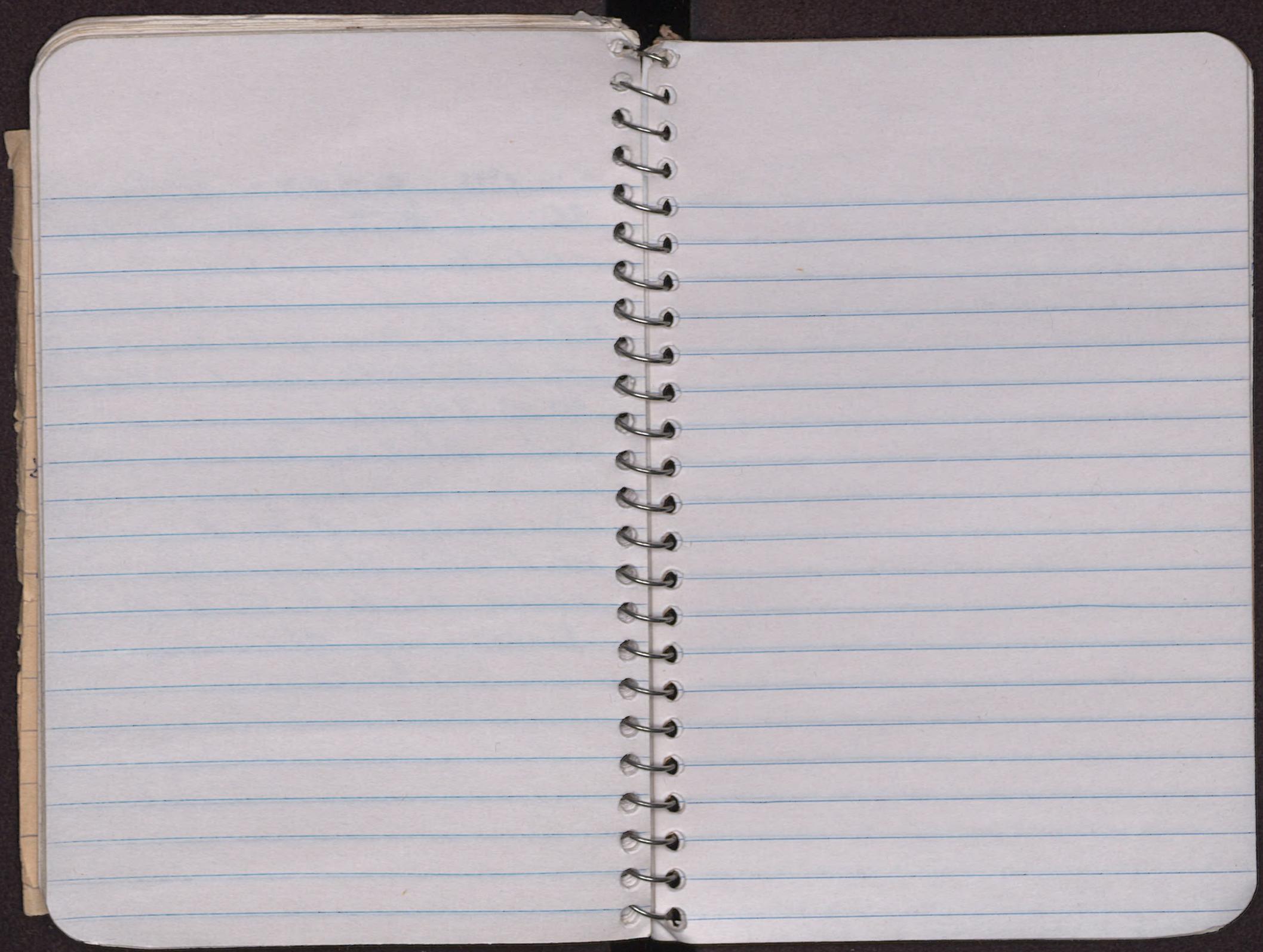
Alpinia ~~guineensis~~ ^{guineensis} + *Alpinia*
rotundata var in.

Belmonte, Min., 31 Km SW
of Belmonte and 84 Km
E of Itapebi.

Alt. 800 m. 30 m

Low tree type of forest on white
sand soil, along slopes
above creek, Full of
seedlings of *Alpinia*.

K, MO, NY, WIS 2994



agm

effas

GAFANHOTO = langosta
rotadora

Hotel Fontana en
Olivença se
dona Jóvelo



wide Mo - lansiers - part.

9302.9 -

CALENDAR

